

BLYUMIN, G., tekhnolog

A new hppper for the transportation of dredged material.  
Mor. flot 25 no.11:34 N '65. (MIRA 18:11)

1. Rizhskiy sudoremontnyy zavod.

ACCESSION NR: AP4041417

S/0179/64/000/003/0071/0078

AUTHOR: Blyumin, G. D. (Moscow); Chichinadze, M. V. (Moscow)

TITLE: Imperturbability conditions for a single rotor gyrocompass

SOURCE: AN SSSR. Izv. Mekhanika i mashinostroyeniye, no. 3, 1964, 71-78

TOPIC TAGS: gyrocompass, single rotor gyrocompass, pendulum gyrocompass, liquid torsional suspension gyrocompass, imperturbable gyrocompass, gyrocompass imperturbability analysis

ABSTRACT: Imperturbability is considered in relation to two types of single rotor gyrocompass. The latter is defined as imperturbable when the direction it indicates is determined totally by the velocity of the motion of its base in the terrestrial sphere, but is independent of accelerations of such motion. The considered types are a pendulum gyrocompass (see Fig. 1 in the Enclosure) and a compass with a combined fluid-torsional method of suspension (see Fig. 2 in the Enclosure). Imperturbability of the former requires and is satisfied by the observation of equality  $H=m/v$  in conjunction with the condition of perpendicularity of vectors  $H$  (angular momentum of gyrocompass sensor relative to its mass center) and  $I$  (a vector describing the location of the mass center relative to the point of support). For the fluid-torsional suspension, imperturbability requires satisfaction

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of conditions

$$H = c_x n_x v / g, \quad P_1 l_1 = c_x n_x^2 + J v^2 \quad (v^2 = g/R) \quad (1)$$

where  $c_x$  is the torsional rigidity of the torsion suspension,  $n_x$  is a constant factor,  $v$  is the absolute velocity of the vehicle,  $P_1$  is the gravitational attraction of the external sphere,  $l_1$  is the distance from axis  $x$  to mass center of the external sphere, and  $J$  is the moment of inertia of the external sphere relative to axis  $y$ . The sustained oscillation period, during which the compass is imperturbable, is approximately equal to the Schuler period. Orig. art. has: 7 graphs and 21 numbered equations.

ASSOCIATION: none

SUBMITTED: 63Jan63

ENCL: 02

SUB CODE: NG

NO REF SOV: 002

OTHER: 000

Card

2/4

ACCESSION NR: AP4041417

ENCLOSURE: 01

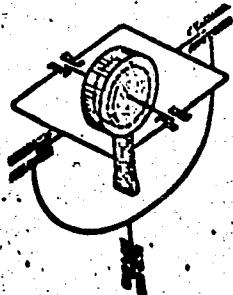


Figure 1.

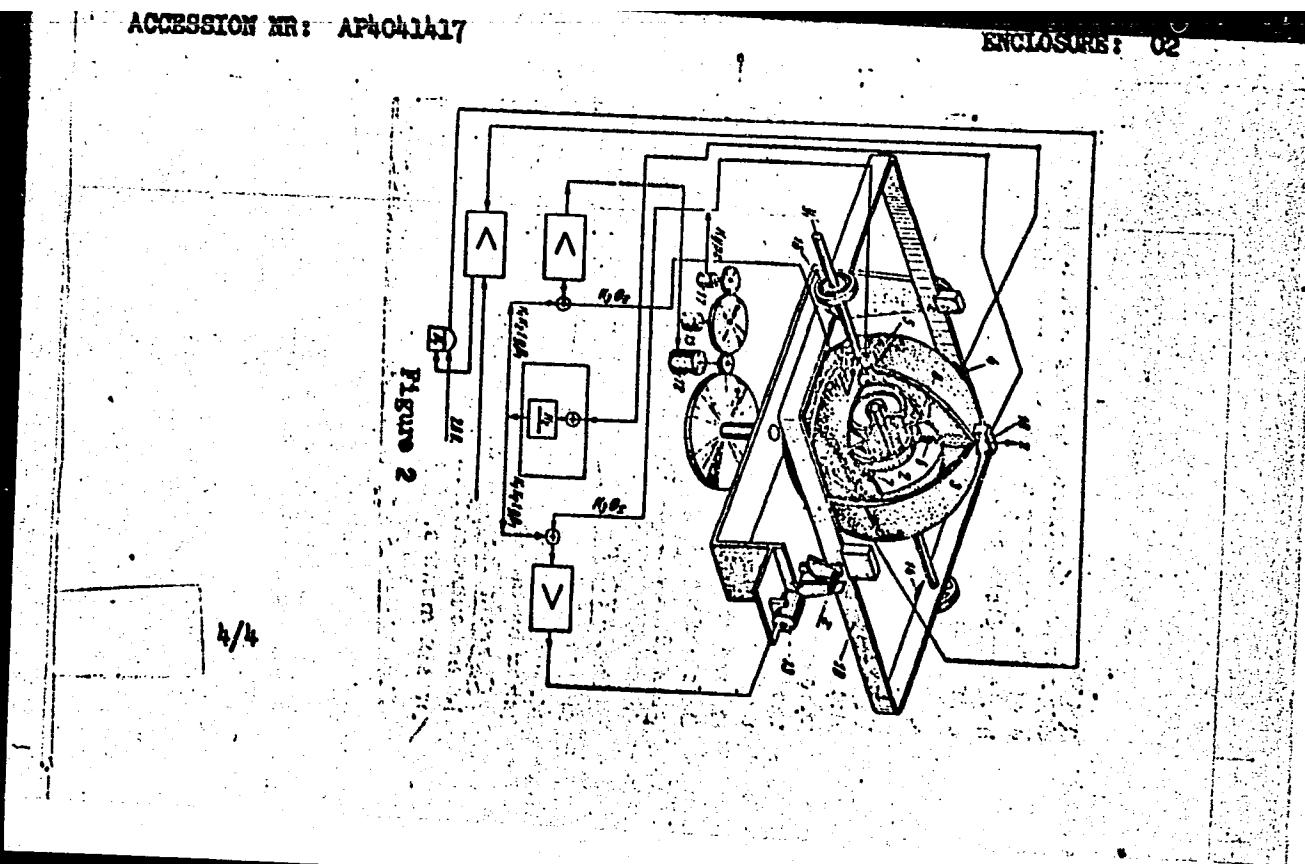
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"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7

ACCESSION NR: AP4041417

ENCLOSURE: 02



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CIA-RDP86-00513R000205610019-7"

L 25325-65 ECO-2/EMI(1)/FDD/FMS-2/ECO(k)-2/EMG(7)/EBC-4/ECO(c)-2/EDD-2/  
 PS(b) Pn-4/Po-4/Pe-5/Pq-4/Pac-4/Pg-4/Ph-4/Pk-4/P1-4/Ps-e-2 INF(1) BC/AST

ACCESSION NR: AP5002599

S 1074/64/000/005/0100/0123

AUTHORS: Blyumin, G. D. (Moscow), Chichinadze, N. V. (Moscow)

15

TITLE: Conditions of nonperturbation of a correcting single rotor gyrocompass

SOURCE: AN SSSR, Izvestiya. Mekhanika i mashinostroyeniye, No. 3, 1964.

TOPIC TAGS: gyroscope design, guidance R+D, spacecraft compass, spacecraft direction finder, gyrocompass

ABSTRACT: The authors summarized certain definitions, nomenclature, and conditions describing the performance of gyrocompasses presented in their earlier report (*Usloviya nevozmushchayemosti odnorotornogo girokompassa*, IAN. Mekhanika i mashinostroyeniye, 1964, No. 3). In addition, a gyrocompass is defined as being capable of correcting if it has moments which cancel its sensitivity deviation. Expressions are given for forces of inertia of a pendulum in terms of the direction cosines of a three-dimensional rectangular system and in terms of the absolute acceleration of the craft, written as the vector equation  $\ddot{w} = \omega \times w + f$ . In the equation, the vectors  $U$  and  $v$  are given by  $v_1 = RU \cos \varphi + v_R$ ,  $U_1 = -v_R / R$ .

$$\begin{aligned} v_2 &= v_R, & U_2 &= U \cos \varphi + v_z / R \\ v_3 &= 0, & U_3 &= U \sin \varphi + (v_x / R) \tan \varphi, \end{aligned}$$

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for the case of craft motion relative to the earth. Four variables are isolated as expressed in the relationships  $\alpha^* = -\frac{U_1}{U_1 + c_x/H}$ ,  $\theta_c = -\frac{HU_1}{c_x}$

$$\beta_x = -\frac{HU_1}{c_x} + n \frac{U_1 r_1}{g}, \quad \epsilon_x = -\alpha^* + n \frac{U_1 r_1}{g}$$

The authors state that external information about the four parameters is needed for obtaining the correction moments of a craft. By ignoring secondary orders of magnitude and adopting certain approximations applicable to relevant cases, the authors derived the simpler expressions  $T_x = 2\pi \left( \frac{H}{c_x U_1} \right)^{1/2}$  or  $T_x = \frac{2\pi}{\nu} \mu$  where  $\mu = (U_1 + c_x/H)^{1/2}$

as good approximations for the angles of curling torsion measured against the x and z axes respectively. In conclusion, the authors note that the formulas are approximate and, as such, are only applicable in cases where Schuler's condition of non-perturbation of a gyroscopic compass holds. Orig. art. has 24 equations.

ASSOCIATION: none

SUBMITTED: 03Jan64

ENCL: 00

SUB CODE: NG

NO REF Sov: 002  
Card 2/2

OTHER: 000

BLYUMIN, G.Z.

Tapping of spruce in White Russia. Gidroliz.i lesokhim.prog.  
15 no.6:14-16 '62. (MIRA 15:9)

1. Belorusskiy nauchno-issledovatel'skiy institut lesnogo  
khozyaystva Akademii sel'skokhozyaystvennykh nauk Belorusskoy  
SSR.

(White Russia--Turpentining)

BLYUMIN, G.Z.

Experience in the three-year spruce tapping. Gidrolyz. i lesokhim.  
prom. 17 no. 5:19-20 '64. (MIRA 17:10)

1. Belorusskiy nauchno-issledovatel'skiy institut lesnogo khozyaystva.

BLYUMIN, Izrail' Grigor'yevich, doktor ekon. nauk, prof. [1897-1959];  
DVORKIN, I.N., doktor ekon. nauk, ctv. red.; PASHKOV, A.I.,  
red.; AL'TER, L.B., doktor ekon. nauk, red.; POLYANSKIY,  
F.Ya., doktor ist. nauk, red.; OSADCHAYA, I.M., kand. ekon.  
nauk, red.; BAKOVETSKAYA, V.S., red. izd-va; TIKHOMIROVA,  
S.G., tekhn. red.

[Criticism of bourgeois economics] Kritika burzhuaznoi politi-  
cheskoi ekonomii. Moskva, Izd-vo Akad. nauk SSSR. Vol.1. [Sub-  
jective school in bourgeois economics] Sub"ektivnaia shkola v  
burzhuaznoi politicheskoi ekonomii. 1962. 871 p. (MIRA 15:10)  
1. Chlen-korrespondent Akademii nauk SSSR (for Pashkov).  
(Economics)

BLYUMIN, I.I.; BUDIGAYEV, Ye.N.

Prophylaxis of experimental burn shock. Vest.khir. 75 no.3:124 Ap  
'55. (MLRA 8:?)

1. Iz eksperimental'noy laboratorii OVG.  
(SHOCK)

BLYUMIN, I. SH.

PA 16T55

USSR/Medicine - Osteomyelitis  
Medicine - Surgery

Jul 1947

"Sequestrum and Fragments in Chronic Osteomyelitis  
of Gunshot Origin," I. Sh. Blyumin, 5 pp

"Hospital Delo" No 7

Experiments conducted at the Clinic of Hospital  
and Field Surgery of the Kuybyshev Medical In-  
stitute, headed by A. M. Aminev. The study of  
frequency of sequestrum due to gunshot  
osteomyelitis must stem from a study of the  
processes involved. The above-mentioned Institute  
is particularly interested in chronic gunshot  
osteomyelitis.

16T55

BLYUMIN, I. Sh.

Intra-arterial administration of medicinal substances in freshly  
inflicted wounds; experimental data. Khirurgia, Moskva no. 7:51-55  
July 1952. (CML 23:1)

1. Candidate Medical Sciences. 2. Of the Department of Operative  
Surgery (Director -- Prof. I. N. Askalonov), Kuybyshev Medical In-  
stitute.

BLYUMIN, I.Sh.; BUDIGAYEV, Ye.N. (Krasnodar)

Neural factor in the pathogenesis and therapy of acute disseminated peritonitis. Khirurgija no.4:69-75 Ap '54. (MLRA 7:6)  
(PERITONITIS, physiology,  
\*neural factor)

BLYUMIN, I.Sh.(Kuybyshev); KHEYFITS, A.B.(Kuybyshev)

Intraosseous synthesis with plexiglass pins in fractures of long  
hollow bones. Vest. khir. '76 no.11:80-83 '55. (MIRA 9;4)

(FRACTURES

hollow bones, synthesis with plexiglass)

(ACRYLIC RESIN

polymethacrylic resin in synthesis of long hollow bone  
fract.)

USSR/Pharmacology. Toxicology. Local Anesthetics

Abs Jour : Ref Zhur - Biol., No II, 1958, No 51979

Author : Elyumin, I.Sh., Vilenskiy, I.T.

Inst : -

Title : Therapy of Extensive Burns

Orig Pub : Eksperim. Khirurgiya, 1956, No 2, 35-43

Abstract : The therapeutic properties of a mixture consisting of Belenko serum, novocaine and penicillin (I) was investigated in 43 dogs with third degree burns. The observations demonstrated that intravenous administration of I in the form of a 0.5 percent solution in doses of 3 ml/kg had a favorable effect, by extending the period of elevated blood pressure and prolonging the life of the animals during the phase of excitation only. The administration of I during the inhibition phase aggravated the course of the process. I prevented the development of the burn shock. The mixture was administered within 1 1/2 hours after the burn and was given again within 24, 48, 72, and 96 hours. The effectiveness of the

Card : 1/2

BUDIGAYEV, Ye.N., starshiy leytenant meditsinskoy sluzhby; BLYUMIN, I.Sh.,  
polkovnik meditsinskoy sluzhby (Krasnodar)

Mechanism of action intravenous injections of novocaine. Vrach.  
delo no.2:163-166 F '56. (MIRA 9:7)  
(NOVOCAINE) (INJECTIONS, INTRAVENOUS)

BLYUMIN, I.Sh. (Kuybyshev)

Experimental biological tamponade of bone cavities. Ortop. travn. i  
protez. 17 no.6:135 N-D '56. (MLRA 10:2)  
(BONES--SURGERY)

BLYUMIN, I.Sh.; VILENSKIY, I.T. (Kuybyshev)

Potentiated anesthesia and hypothermia in the treatment of traumatic  
shock. Eksper. khir. 4 no.6:46-48 N-D '59. (MIRA 14:6)  
(ANESTHESIA) (HYPOTHERMIA) (SHOCK)

BLYUMIN, I.Sh. (Kuybyshev (obl.), Krasnoarmeyskaya ul. d.62, kv.39)

Cavernectomy in treating pulmonary tuberculosis. Grud. khir.  
2 no.4:61-62 Jl-Ag '60. (MIRA 15:6)

1. Iz Gorodskoy tsentral'noy bol'nitsy imeni N.I. Pirogova,  
Kuybyshev.

(TUBERCULOSIS)  
(LUNGS—SURGERY)

BLYUMIN, I.Sh.; FEDOROVA, V.A.

Noble's operation in adhesive obstruction of the small intestine.  
Khirurgiia no.12:66-68 '61. (MIRA 15:11)

1. Iz TSentral'noy bol'nitsy imeni I.I Pirogova (glavnnyy khirurg -  
I.Sh. Hlyumin) g. Kuybysheva.  
(INTESTINES—OBSTRUCTION)

BLYUMIN, I.Sh.; POLUKHINA, K.P.; ZABRODINA, L.I.

Hakim serum reaction in the diagnosis of cancer. "Op. onk. 11  
no.2:91 '65. (MIRA 18:?)

1. Iz Kuybyshevskogo oblastnogo onkologicheskogo dispansera  
(glavnnyy vrach - N.N. Rodionova) i polikliniki Nr. 7 (glavnnyy  
vrach L.Ya. Brodskaya).

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7

BLYUMIN, M.A.

Accuracy of trigonometric leveling in a flat, broken, forest area.  
Geod. i kart. no.9:8-12 S '63. (MIRA 16:10)

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CIA-RDP86-00513R000205610019-7"

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CIA-RDP86-00513R000205610019-7

BLYUMIN, M.A.; MURAKHTANOV, B.V.

Using fluctuations in the water level in topographic surveying  
of a fluvial plain. Geod.i kart. no.10:41-46 0 '62.

(MIRA 15:12)

(Topographical surveying)

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CIA-RDP86-00513R000205610019-7"

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7

BLYUMIN, M.A.

Using transparent plastics in stereophotographic work. Geod. i kart.  
no. 7:49-52 Jl '64. (MIRA 17:12)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7"

BLYUMIN, P.S.

Strangulation of a femoral hernia of the bladder. Zdrav. Bel. 7 no.6:  
59-60 Je '61. (MIRA 15:2)

1. Iz khirurgicheskogo otdeleniya zheleznodorozhnoy bol'nitsy st.  
Vitebsk (nachal'nik I.N.Siparov), nauchnyy rukovoditel' raboty -  
dotsent A.Ya.Mitroshenko.  
(BLADDER HERNIA)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7

BLYUMIN, M.A.

The TT-4 theodolite. Geod.i kart. no.3:25-32 Mr '62.

(Theodolites)

(MIRA 15:12)

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CIA-RDP86-00513R000205610019-7"

BLYUMIN, M.A.

Results of the control of a stereotopographic survey of a flat forested area. Geod. i kart. no.9:51-55 S'62. (MIRA 15:1Q)  
(Aerial photogrammetry)

BLYUMIN, M.A.; KUTSERIB, N.A.

"Erecting signals" by V.N.Shishkin. Reviewed by M.A.Blyumin  
and N.A.Kutserib. Geod.i kart. no.12:65-66 D '62.

(Triangulation signal towers)  
(Shishkin, V.N.)

(MIRA 16:2)

BLYUMIN, V.G.

[Dispensary for medical supervision in physical culture]  
Vrachebno-fizkul'turnyi dispensar. Moskva, Medgiz, 1958.  
173 p. (MIRA 12:2)  
(PHYSICAL EDUCATION AND TRAINING)

L 20056-85 AEDC(a)/AFW/ASD(f)-3/ASD(p)-3/AFETR

ACCESSION NR AM4049798

BOOK EXPLOITATION

S/

B7I

Blyumin, Viktor Il'ich; Ivanov, Lev Alekseyevich; Maseyev, Matvey Borisovich

Hydrofoil boats as a means of transportation (Transportnye suda na pod-vodnykh kryl'yakh), Moscow, Izd-vo "Transport", 1964, 254 p. illus., biblio., diagrs. Errata slip inserted. 3,000 copies printed.

TOPIC TAGS: hydrofoil boat, hydrodynamics

PURPOSE AND COVERAGE: This book presents information on hydrofoil boats, the basic features of their design, calculation of hydrofoils, and the limits of their use. It considers in detail the problems of the hydrodynamics of hydrofoils, describes the data on selection of the basic elements of foils and their position in relation to the hull, and cites other information required by hydrofoil boat designers. The book is intended for a wide audience of engineers and technicians of design bureaus and plants of the river and maritime fleets and can also be useful for students of higher and secondary special educational institutions.

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boats -- 177  
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SUB CODE: AC

SUBMITTED: 30Jun64

NR REF Sov: 031

OTHER: 029

DATE ACQ: 22Oct64

Card 2/2

KAPLAN, M.P., inzh.; BILYUMINA, E.Yu., inzh.

Some problems in the operation of unit-type gas-turbine installations driving an a.c. generator. Teploenergetika no.4:56-62 Ap '60. (MIRA 13:8)

1. Khar'kovskiy turbinnyy zavod.  
(Turbogenerators)

BLYUMINA, E.Yu., inzh.; REMENNIK, S.K., inzh.

Use of changeable rotors for seasonal conversion of condensing steam turbines to back pressure operation in central heating systems. Teploenergetika 11 no.3:58-61 Mr '64.

1. Kiyevskoye energoupravleniye Glavenergo Ministerstva elektrostantsiy SSSR. (MIRA 17:6)

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CIA-RDP86-00513R000205610019-7"

BLYUMINA, L.I.; SAGATOVSKIY, N.V., redaktor; VLASOVA, Yu.V., redaktor;  
BRYANINA, M.I., tekhnicheskiy redaktor.

[Analysis of the recurrence of certain synoptic processes] Analiz  
povtoriaemosti nekotorykh sinopticheskikh protsessov. Leningrad,  
Gidrometeorologicheskoe izd-vo, 1954. 104 p. [Microfilm] (MLRA 7:11)  
(Meteorology--Observations)

BLYUMINA, L. I.

"Analysis of the Frequency of Datum Ultrapolar Processes".  
Meteorol. i gidrologiya, No 1, pp 18-21, 1954.

All the datum ultrapolar processes over Europe and Western Siberia from 1938 to 1951, whose number is equal to 104, are divided into 3 groups: (1) processes distinguished by sharp meridional character; (2) high nucleus with meridional crest; (3) displacement of high anticyclone toward south and southwest. Signs of each group are described. To the first group belong half of all the cases, and to the third group belong 17 cases. The author makes more precise the concepts and determines the number of cases of similar and inverse processes 1, 2, 3, ..., 185 days before the datum process and after it. She establishes 9 rules governing the frequency of datum ultrapolar processes, of which 4 are well known rules, 2 refine a previous formulation, and 3 are new. (RZhGeol, No 8, 1955)

SO: Sum No 884, 9 Apr 1956

3(7)

## PHASE I BOOK EXPLOITATION

SOV/1451

Pagava, S.T., N.A. Aristov, L.I. Blyumina, N.M. Zakharova, and N.A. Sevalkine

Vliyaniye Severnoy Atlantiki na razvitiye sinopticheskikh protsessov  
(Influence of the North Atlantic on the Development of the Synoptic Processes)  
Moscow, Gidrometeoizdat, 1958. 70 p. 1,200 copies printed.

Sponsoring Agencies: Moscow. Tsentral'nyy institut prognozov, and USSR.  
Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

Resp. Ed.: Sagatovskiy, N.V.; Ed.: Sadovskiy, V.N.; Tech. Ed.: Zemtsova, T. Ye.

PURPOSE: This booklet is intended for meteorologists and climatologists, particularly those engaged in long range weather forecasting.

COVERAGE: This book discusses the results of research on problems concerning the interaction between the ocean and atmosphere with emphasis on the North Atlantic area. A connection is shown to exist between the amount of heat transferred by the water to the air and the thermal processes in the atmosphere. The character of the heat emission from the ocean surface to the

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## Influence of the North Atlantic (Cont.)

SOV/1451

air is also described. An analysis of these air-water actions and relationships is made in terms of their effects on European temperature patterns. Included are data which can be used in long range weather forecasting. There are some tables of daily air and water temperature readings and numerous charts. The authors thank A.M. Alekhina, V.V. Anikiyeva, Ye. A. Anosova, G.V. Litvinovich and T.I. Chekrygina for their technical assistance in preparing the work. There are 13 references of which 6 are Soviet, 3 German, 2 English, and 1 Danish.

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Relationship Between the Temperature of the Water and Air in the North Atlantic	13
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MM/mas  
6-3-59

Card 3/3

BLYUMINA, L.I.

Conditions for the formation of warm and cold Aprils in the European part of the U.S.S.R. and Western Siberia and some indications for their prediction. Trudy TSIP no. 92:31-51 '60.  
(Atmospheric temperature) (Weather forecasting)

(MIRA 14:2)

BLYUMINA, L.I.

Method of forecasting the general nature of synoptic processes and  
temperature anomaly of the air for spring. Trudy TSIP no.109;3-14  
'61. (MIRA 14:5)

(Weather forecasting)

S/169/62/000/001/058/083  
D228/D302

AUTHOR: Blyumina, L. I.

TITLE: A method of compiling the forecast for the general character of synoptic processes and the air temperature anomaly in spring

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 1, 1962, 55, abstract 1B356 (Tr. Tsentr. in-ta prognozov, no. 109, 1961, 3-14)

TEXT: Maps of the mean monthly values of H-500 and H-500/1000 for January and February from 1938 to 1959, constructed for the area of the North Atlantic and Eurasia, were used to forecast the temperature anomaly for April and the natural synoptic season of spring. Charts of the H-500/1000 differences from February to January were constructed for 22 years. Four groups of the maps of the differences were exposed; these indicate the prevailing types of synoptic processes and the sign of the air temperature anomaly over the USSR's European territory and Western Siberia during April and

Card 1/2

A method of compiling ...

S/169/62/000/001/058/083  
D228/D302

the whole natural synoptic season. A method of using the differences in the absolute H-500/1000 height values from February to January is proposed; this provides the possibility of forecasting at the beginning of March the general character of the prevailing synoptic processes and the average monthly ground-temperature. On an average for 22 springs the qualitative coefficient of correlation  $\rho$  equals 0.47 for the USSR's European territory and 0.37 for Western Siberia. [Abstractor's note: Complete translation.]

Card 2/2

6/546/62/000/103/001/002  
I053/I253

AUTHORS: Aristov, N.A. and Blyumina, L.I.

TITLE: Planning of diagrams concerning synoptic processes for a subsequent natural synoptic period

SOURCE: Moscow. Tsentral'nyy institut prognozov. Trudy. no. 103, 1962.  
Voprosy dolgosrochnykh prognozov pogody, 39-54

TEXT: A method for constructing diagrams of terrestrial synoptic processes according to the AT500 chart follows the qualitative changes in a basic field which occur at the climax of the tendency that characterizes one natural synoptic period to a second one. It also has as a basis the appreciation of corresponding processes occurring over the earth's surface. The authors investigated the changes in the baric field subjected in different regions and which appear by transferring a tendency for a natural synoptic period to be followed by another. By means of the assembly of cinematic charts derived in the development of these synoptic processes in the same region during a natural synoptic period, the consequent changes on the earth's surface were determined. The authors show

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Planning of...

S/546/62/000/103/001/002  
I053/I253

the existence of 23 concordances with the most frequent degree of repetition between changes of the basic field which occur at high altitude and the synoptic processes on the earth's surface. This conclusion was based on data concerning 134 natural synoptic periods during the years 1949-1950. The results confirm that the drawing up of diagrams of synoptic processes on the earth surface is operable according to altitudinal prognosis charts ante calculated on the tendency for a subsequent natural synoptic period. Finally, an example of prognosis is cited for a diagram of a synoptic process on the earth's surface and for the subsequent synoptic natural period. There are 27 figures and 1 table.

Card 1/2

BLYUMINA, L.I.

Utilization of basic ultrapolar processes in forecasting for  
April in the last 15 years. TRUDY TSIP no.115:33-37 '62,  
(MIRA 16:6)  
(Weather forecasting)

BLYUMINA, L. I.

Forecasting the anomalies of surface air temperature for a season and a month. Trudy TSIP no. 127:67-75 '63. (MIRA 17:5)

✓ 73/12/8

533.691.048.3

On a Turbulent Wake of a Thick  
Aerofoil With a Finite Aspect Ratio  
In a State of Angular Harmonic  
Vibrations with Large Amplitudes

73/12/8  
26(3), 618-622  
1956

K. K. Fodyaevsky, L. Kh. Blyuzina

R.S.S.R.

Analyzing results obtained by V. V. Yakovlevko with  
Joukowski's symmetrical solution, it is shown that at large  
rotational vibrations around an axis perpendicular to the chord from the leading edge, as well as L. S. Veltser's  
and L. P. Smirnov's visual observations, the authors come  
to the following conclusions: 1. At the small amplitudes  
there exists a more complex vortex system  
which consists of a plane vortex trail behind the  
trailing edge and of a streak of vortices  
flowing from the nose. 2. At large amplitudes  
the plane vortex wake is  
discretized into discrete vortices, at a very large amplitude  
wing only a vortex street can be observed. 3. The  
Karman direction of rotation. Bibl. 3.

73/12/8 4M#

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 41 (USSR) SOV/124-58-10-10987

AUTHORS: Blyumina, L. Kh., Zakharov, Yu. G.

TITLE: Oscillations of Cylindrical Bodies in an Air Flow (Kolebaniya tsilindrcheskikh tel v vozdushnom potoke)

PERIODICAL: V sb.: Issled. po dinamike sooruzheniy. Moscow, Gos. izd-vo lit. po str-vu i arkhitekt., 1957, pp 44-60

ABSTRACT: An investigation was performed in a wind tunnel ( $D = 3m$ ) on the oscillatory characteristics of cylindrical bodies in a flow of air directed perpendicularly to the generatrix of the cylinder. Tests were made under various flow conditions corresponding to impinging airspeeds from 20 to 60 m/sec with the cylinder supported by an elastic mounting. The magnitude of the pressure on the cylinder was registered by means of low-inertia membrane-type transducers connected to static-pressure orifices, the velocity pulsation in the stream was measured by a hot-wire anemometer, and the oscillations of the cylinder were measured by a strain gage mounted on the cylinder; in addition, the oscillations of the cylinder were registered by mechanical means. It was determined that in all cases

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**Oscillations of Cylindrical Bodies in an Air Flow**

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the oscillations of the cylinder occur at its natural frequency (dependent on the degree of elasticity of the mounting) in a plane perpendicular to that of the impinging air flow. This deduction is confirmed by previous observations on the oscillations of smokestacks conducted by the TsNIPS (Central Scientific Research Institute of Industrial Structures) and also coincides with the deductions of S. P. Strelkov (Zh. tekhn. fiz., 1939, Vol 9, Nr 19) regarding the self-excited oscillatory character of such a phenomenon. The authors note the inconsistency of the explanation of the origin of the oscillations of a cylinder in an air flow by the periodical detachment of Bénard-Kármán vortices. The case of wind resonance is examined, i. e., when the frequency of the detachment of the Bénard-Kármán vortices coincides with the natural frequency of the oscillations of the cylinder. The paper presents oscillograms of the oscillations of a cylinder at various air speeds, the magnitude of the drag of the cylinder in relation to the R number, the relationship between the amplitude of the oscillations of the cylinder and the R number, and oscillograms of the airspeed pulsations downstream of the cylinder. Strain-gage recordings, together with recordings of the detachment of the vortices with the cylinder in its extreme positions, are presented. The frequency of the vortex detachments coincides with the oscillatory frequency of the cylinder. On the basis of the values obtained, the relationship of the normal-force

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Oscillations of Cylindrical Bodies in an Air Flow

SOV/124-58-10-10987

coefficient  $C_z$  against the R number is given. The maximum  $C_z$  corresponds to the wind-resonance condition and equals 0.12. The results obtained in the paper may be used in the design of tower-type structures.

V. M. Shalov

Card 3/3

~~Summary of experiments carried out by Iakovensk to determine the dependence~~

~~With a counter-Kirlian direction of rotation.~~

AM 14

*Belyanina, L. Eh.*

<i>Belyanina, L. Eh.</i>	
	Activity of the Scientific-Technical Society of the Shipbuilding Industry. (Topics Presented at the First Scientific-Technical Conference on Ship Theory Budapest, No. 1, 1960)
	D. A. Pines, Chief Tech. Sci. L. I. Mironov, Dr. Tech. Sci.
	Report presented:
	J. K. K. Belyanina, Dr. Tech. Sci., "The Influence of Friction Rubber on the Behavior of Circulars of a Ship in the Case of Large Angles of Bender Position."
	A. G. Prokhorov, Captain, "Some Results of Statistical Study of Circulars and the Rolling of the Propulsion Ship 'Mihail Lomonosov'".
	K. E. Polyanskiy, Dr. Tech. Sci. and L. D. Ruzin, Chief Tech. Sci., "Approximate Determination of Hydrodynamic Parameters Characteristics of Bodies of Small Elongation (Wings, Bodies of Revolution) at Large Angles of Attack."
	V. Ya. Romanov, Captain, "Calculation of Ship Prints During Strength-Capacity Operations Taking into Account the Influence on Draft Moment Magnitude of the Form of the Underwater Part of the Hull and the Angle of Incidence."
	E. A. Belyanina - Capt. Tech. Sci., "Structures of Flow Around Obstaculating Wings of Low Elongation."
	N. V. Savchenko, Capt. Tech. Sci., "Computational Stability of a Ship on Hydrodynamics."
	V. G. Slobod, "General Theory of Wave Resistance of a Ship on Calm Water."

BLYUMINA, L.Kh, FEDYAYEVSKIY, K.K., and GREBENNIKOV, V.G.

"Study of the hydrodynamic characteristics of a minimally elongated dihedron in unstable motion."

report presented at the 11th Annual Scientific Technical Conference on Ship Theory, organized by the Central Administration of the Scientific-Technical Society of the Shipbuilding Industry, 13-15 December 1960.

ACC NR: AP6034552 (N) SOURCE CODE: UR/0421/66/000/005/0144/0147

AUTHOR: Blyumina, L. Kh. (Moscow); Fedyayevskiy, K. K. (Moscow)

ORG: None

TITLE: Loss of aerodynamic damping in isolated structural elements in the case of angular oscillations

SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 5, 1966, 144-147

TOPIC TAGS: vibration damping, aerodynamic stability, wind, angle of attack

ABSTRACT: The authors study the aerodynamic aspect of loss of stability in engineering structures, i. e. the loss of aerodynamic damping in bodies without any internal shock absorption and with a single degree of freedom. Conditions are studied under which structural elements subjected to angular oscillations lose their aerodynamic damping. Damping coefficients are experimentally determined for various wind directions. It is found that aerodynamic damping is lost in certain regions of angles of attack and an approximate method is proposed for calculating the damping coefficients for various wind directions. The theoretical and experimental data show satisfactory agreement. The maximum loss of aerodynamic damping in an angular structural element takes place at angles of attack from 60 to 70° and from -40 to 0°, i. e. at angles where the derivative of  $c_y^\alpha$  is negative and rather high in absolute value. Orig. art. has: 4 figures, 9 formulas.

SUB CODE: 20/ SUBM DATE: 20Apr66/ ORIG REF: 003

Card 1/1

USSR / General Problems of Pathology. Transplantation of U  
Tissue and Tissue Therapy.

Abs Jour: Ref Zhur-Biol., No 11, 1958, 51586.

Author : Blyumina, L. S.

Inst : Chkalov Medical Institute.

Title : On the Content of Biogenic Stimulants in the  
Solilecki Therapeutic Mud.

Orig Pub: Tr. Chkalovskogo Med. in-ta, 1956, vyp 5, 326-333.

Abstract: No abstract.

Card 1/1

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7

BLYUMINA, L.S.

Algae of the Sol'-Iletsk salt lakes. Bot. zhur. 42 no.6:912-917  
Je '57. (MIRA 10:?)  
(Sol'-Iletsk--Algae) (Saline waters)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7"

BLYUMINA, L. S.: Master Biol Sci (diss) -- "The biology of the salty Sol'-Iletsk lakes". Tomsk, 1958. 17 pp (Tomsk State Med Inst), 225 copies (KL, No 6, 1959, 129)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7

BLYUMINA, L.S.

New diatoms from ultrasaline waters of the Sol'-Illetsak Lakes.  
Bot.mat.Otd.spor.rast. 12:67-69 Ja '59. (MIRA 12:12)  
(Sol'-Illetsak region--Diatoms)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7"

BILYUMINA, LS.

Materials on the characteristics of phytoplankton in the Ural  
River near Orenburg. Bot. zhur. 47 no.11:1672-1675 N '62.  
(MIRA 16:1)

1. Orenburgskiy gosudarstvennyy meditsinskiy institut.  
(Ural River—Phytoplankton)

BLYUMINA, M.G.

Clinical aspects of the phenylpyruvic oligophrenia  
(phenylketonuria). Zhur. nevr. i psikh. 64 no.7:1035-  
1039 '64. (MIRA 17:12)

1. Moskovskiy gorodskoy psikhoneurologicheskiy dispanser dlya  
detey i podrostkov (glavnyy vrach - kand. med. nauk K.N. Nazarov,  
nauchnyy rukovoditel' - prof. G.Ye. Sukhareva).

SHIRMAN, A.M.; BLYUMINA, M.G.

Specialized aid for children of day nursery or preschool age . . .  
with organic lesions of the central nervous system. Zhur.  
nevr. i psich. 64 no.7:1106 '64. (MIRA 17:12)

BLYUMINA, M.G.; GINGOL'D, A.I.

One of the forms of dysostotic oligophrenia. Zhur. nevr. i psikh.  
63 no.7:1085-1088 '63. (MIRA 17:7)

1. Klinika psikhozov detskogo vozrasta Nauchno-issledovatel'skogo  
instituta psikiatrii (direktor - prof. D.D. Fedotov) Ministerstva  
zdravookhraneniya RSFSR i rentgenologicheskoye otdeleniye Detskoy  
klinicheskoy bol'nitsy imeni N.F. Filatova, Moskva.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7

BLYUMINA, M.G.

Methodology for experimental psychological examination of 2- to  
5-year-old oligophrenic children. Trudy Gos. nauch.-issl. inst.  
psikh. 43:242-249 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7"

BLYUNINA, T.O.

Volitional direction of the personality and its formulation by  
A.S.Makarenko. Nauk. zap. Nauk. zap. Nauk.-dosl. inst. psykhol.  
11:292-294 '59. (MIRA 13:11)

1. Pedagogicheskiy institut im. A.S.Pushkina, Kirovograd.  
(Makarenko, Anton Semenovich, 1888-1939) (Will)

AUTHOR: Blyumkin, A.I. 117-58-5-13/24

TITLE: Two-Way Machining Device (Prisposobleniye dlya dvustoronney obrabotki detaley)

PERIODICAL: Mashinostroitel', 1958, Nr 5, p 30 (USSR)

ABSTRACT: The machining of a certain tractor part (Figure 1) requires 2 operations on 2 different machines: the cutting of a threaded opening on a turret lathe and the drilling a center hole on a vertical drilling machine. By a simple device shown in figure 2, the 2 operations can be combined in one process. The centering drill is attached by a bracket to the turret lathe. There are 2 figures.

AVAILABLE: Library of Congress

Card 1/1 1. Turret lathes-Application 2. Drilling machines-Operation

BLYUMKIN, A.M.  
KOROLEV, A.S.; BLYUMKIN, A.M.

Small stand for winding coils of measuring instruments. Torf.prom.  
34 no.8:29 '57. (MIRA 11:1)

1. Varegovskoye torfopredpriyatiye.  
(Electric coils)

KOROLEV, A.S.; ELYUMKIN, A.M.

Checking fuses and thermal relays at the Varegovo peat  
enterprise. Torf.prom. 34 no.8:30 '57. (MIRA 11:1)

1. Varegovskoye torfopredpriyatiye.  
(Electric fuses) (Electric relays)

BLYUMKIN, G. V.

BLYUMKIN, G. V. "Some Laws and the Automation of Regulating the Process of a Single-stage Closed Cycle of Wet Grinding." Leningrad Order of Lenin and Order of Labor Red Banner Mining Inst. Leningrad, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', No. 19, 1956.

L 29232-66 ENT(m)/EWP(t)/ETI JD  
ACC NR: AP6019339

SOURCE CODE: UR/0136/66/000/003/0020/0022

AUTHOR: Blyumkin, G. V.; Kritskiy, Ye. L.; Lokonov, M. F.; Prostuto, V. S.

42  
B

ORG: none

TITLE: Questions on the use of computer technology at concentrating and agglomerating plants

SOURCE: Tsvetnyye metally, no. 3, 1966, 20-22

TOPIC TAGS: computer technology, automation

ABSTRACT: In connection with the absence of specialized data and computer machines for concentrating and agglomerating plants, the different systems of collection and processing current information, based on data and computer machines of general industrial use, are being proposed at the present time. The Central Planning and Design Office in its plans, is oriented to SOU and TsSTI systems for the Zyrayev Concentrating Plant the VNIEP-3 machine was selected; in the planning assignment for the automation of the production at the Zhdanov Concentrating Plant use is provided for a newly developed electronic machine. Additionally the UMShN, MPPI, UM-1, MARS-UB and other machines and devices are recommended by various departments and individual organizations.

[JPRS]

SUB CODE: 13, 09 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 003

Card 1/1 CC

UDC: 622.7.002.6

BLYUMKIN, L.M.; LINNIK, L.N.; NIKITINA, G.I.

Possibility for ion mass analysis by the frequency-selective  
method. Prib. i tekhn. eksp. 10 no. 5:169-171 S-0 '65.  
(MIRA 19:1)

1. Submitted October 10, 1964.

BLYUMKIN, L.P.; POPOV, Ye.A.

The EF-ZM electronic fluorimeter. Priborostroenie no.12:30  
D'63. (MIRA 17:5)

BLYUMKIN, R.

The mining PK-3 cutter-loader. Mast.ugl. 4 no.12:14 D '55.  
(MLRA 9:3)  
(Coal mining machinery)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7

BLYUMKIN, R.

Cutter-loader designer. Mast. ugl. 7 no.1:16a-16d, 17 Ja '58.  
(Coal mining machinery) (Khorin, Vladimir Nikitich) (MIRA 11:2)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7"

BLYUMKIN, R.

On the threshold of tomorrow. Sov. shakht. 12 no.6:23-26 Je  
'63. (MIRA 16:9)  
(Coal mining machinery) (Automatic control)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7

BLYUMKIN, R.

Tourist camp in the Donets Basin. Zdorov'e 4 no.11:28 N '58.  
(KRASNYY YAR--TOURIST CAMPS, HOTELS, ETC.) (MIRA 11:11)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7"

ELYUMKIN, R.

New work of the State Experimental Institute of Design and Construction for the Coal Machinery Industry. Sov.shakht. 10 no.4:  
24-26 Ap '61. (MIRA 14:9)  
(Coal mining machinery--Design and construction)

ACC NR: AR6036130 (*n*) SOURCE CODE: UR/0398/66/000/010/A008/A009

AUTHOR: Blyumkin, V. D.

TITLE: Living conditions on ships of the fishing fleet

SOURCE: Ref. zh. Vodnyy transport, Abs. 10A60

REF SOURCE: Sb. Rybovoyn. flot. T. 2. Sudostroyeniye, 1965, 320-324

TOPIC TAGS: fishing ship, water distillation, air conditioning equipment, marine air conditioning, fishing industry

ABSTRACT: A study is made of the living conditions on fishing ships as well as the measures to be taken for decreasing roll and vibration on these ships. The need of equipping the floating base ships with heavy-duty distillation facilities and the ships, operating in tropic waters, with air conditioning systems is pointed out.  
[Translation of abstract] [NT]

SUB CODE: 13/

Card 1/1

UDC: 629.124.72:658.25

BLYUMKIN, V.N.; GAVRILOV, V.I.; SHCHEKOCHIKHINA, Ye.A. ZMITYEVA, R.G.

Cytological , cytochemical and karyological characteristics of the  
RES strain and its sensitivity to the Coxsackie virus V<sub>c</sub>. Vop. virus  
9 no.4:474-482 Jl-Ag '64.

1. Institut v'rusologii imeni D.I.Ivanovskogo AMN SSSR i Kon-  
trol'nyy institut meditsinskikh biologicheskikh preparatow  
imeni L.A. Tarasevicha, Moskva.

BLYUMKIN, V.N.  
USHAKOVA, N.A., assistent

Morphological substrate of some pathological phenomena caused by  
pleural adhesions. Zdrav. Bel. 6 no.12:18-21 D '60. (MIRA 14:1)

1. Kafedra histologii (zav. - dotsent V.N. Blyumkin) Vitebskogo  
medinstituta.

(PLEURA—DISEASES)

Blyumkin, V.N.

KALUGIN, A.S. (Vitebsk, ul. Krasnykh Partizan, d.10, kv.11)

Changes in the elastic and morphological properties of the peritoneum  
in the process of conservation and transplantation. Nov.khir.arkh.  
no.6:66-68 N-D '59. (MIRA 13:4)

1. Kafedra gospital'noy khirurgii (zaveduyushchiy - prof. I.B. Olesh-  
kovich) i kafedra histologii (zaveduyushchiy - dotsent V.N. Blyumkin)  
Vitebskogo meditsinskogo instituta.  
(PERITONEUM--TRANSPLANTATION)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7

BLYUMKIN, V. N.

"Innervation of Joints in the Peritoneal Region," Khirurgiya, No.6, 1949

Chair of Histology & Embryology, 1st Moscow Med. Inst.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7"

BLYUMKIN, V. N.

USSR / Morphology of Man and Animals. Nervous System.

S-1

Abs Jour : Ref Zhur - Bibl., No 5, 1958, No 21691

Author : Blyumkin, V. N.

Inst : AS USSR

Title : Relationship between Innervation of the Wharton's Jelly  
and Histogenesis of Mucoid Tissue in the Umbilical Cord.

113(?) - 135

Orig Pub : Dokl. AN SSSR, 1956, 106, No 1, 132-135.

Abstract : Numerous nerve endings were found in a proximal portion  
of the umbilical cord; the arborescent ones, the more  
numerous, looplike, thin fibrillar, lamellalike and  
bulboid endings. The foliaceous terminals of arbore-  
scent endings were located in intercellular substance.  
Looplike endings were found not only in this substance  
but also in the ectoplasm and endoplasm of the Wharton's  
jelly's fibrocytes. Nerve fibers of the umbilical cord  
were unmyelinated. In early stages (8-9 weeks) they had  
an even outline. Later, swelling appeared in some places

Card 1/2

USSR / Morphology of Man and Animals. Nervous System

S-1

Abs Jour : Ref Zhur - Biol., No 5, 1958, No 2691

**Abstract** : on the fibers which were rich in neuroplasm. Between the 10th and 16th week fibers appeared with signs of secretion that increased sharply during the fifth lunar month. Destruction of fibers began towards the fifth month and increased a great deal towards the seventh month. Three types of neurosecretion were observed. One type was characterized by a protuberance which became separated by constriction from the fiber. In the other type, a racemose figure grew from such a protuberance or from the fiber directly and disintegrated into drops. In the third variant, numerous droplets became separated immediately from a significant portion of the fiber. There was a close relationship between those in the jelly's fibrocytes. Neurosecretion occurred in a secretory zone of the fibrocytes secreting intercellular substance. The disintegration of fibers took place in a dystrophic zone of the fibrocytes.

\*the processes taking place in the nerve fibers and

Card 2/2

12

BLYUMKIN, V.N.

Functional significance of innervation of the human umbilical cord.  
[with summary in English] Biul. eksp. biol. i med. 43 no.2:91-95  
F '57 (MLRA 10:5)

1. Iz kafedry gistolologii (zaveduyushchiy-dotsent V.N. Blyumkin)  
Vitebskogo meditsinskogo instituta (direktor-dotsent I.I. Bogdanovich).  
Predstavlena deystvitel'nym chlenom AMN SSSR professorom V.N.  
Chernigovskim.  
(UMBILICAL CORD, innervation,  
nerve fibers in Wharton's jelly) (Rus)

BLYUMKIN, V. N., Doc Med Sci -- (diss) "Material on the functional histology of the umbilical cord in man." Moscow, 1960. 17 pp; (Second Moscow State Medical Inst im N. I. Pirogov); 350 copies; bibliography at end of text (12 entries); (KL, 32-60, 146)

BLYUMKIN, V.N.; DUKSINA, S.G.

Histochemical and biochemical study of glycogen in the umbilical cord.  
Akush. i gin. no.6:126 N-D '63. (MIRA 17:12)

1. Iz kafedry histologii (zav. - doktor med. nauk V.N.Blyumkin) i  
kafedry analiticheskoy khimii (zav. V.S.Konyushko) Vitebskogo medit-  
sinskogo instituta.

BLYUMKIN, V.N.; VASLYANINA, N.I.

Rapid method of preparing iron hematoxylin for staining mono-layer cell cultures. Vop. virus no.6:735-736 N-D '63.  
(MIRA 17:6)

1. Institut virusologii AMN SSSR imeni D.I. Ivanovskogo, Moskva.

BLYUMKIN, V.N.; SOLOV'YEVA, A.I.

Sex chromatin in the nuclei of cells of primary trypsinized monolayer cultures from human embryonal tissues. Vop. virus. 9 no.2:237-240  
Mr-Ap '64. (MIRA 17:12)

1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7

GAVRILOV, V.I.; YERSHOV, F.I.; BLYUMKIN, V.N.; KVOKOV, I.I.; LEVINA, D.S.;  
ZMIYEVA, R.G.

Characteristics of the morphogenesis of the cultures of the line of  
transplantable CA-SV40-63-1 cells. Vop. virus. 10 no.3:323-329 My-  
Je '65. (MIRA 18:7)

1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moscow.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205610019-7"

PRIYMYAGI, L.S.; BLYUMKIN, V.N.; FADNEYEVA, L.L.; SOLOV'YEVA, A.I.

Effect of interferon on the state of the RES cell line inoculated  
with the tick-borne encephalitis virus. Vop. virus. 10 no.2:225-  
226 Mr.-Ap '65. (MIRA 18:10)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.

BLYUMKIN, V.N.; GAVRILOV, V.I.; WASIL'YEVA, N.N.; ZMIYEVA, R.G.

Cellular strains obtained from tumors caused by the SV40 virus.  
Biul.eksp.biol. i med. 59 no.5:85-88 '65.

(MIRA 18:11)

1. Institut virusologii imeni D.I.Ivanovskogo (direktor -  
deystvitel'nyy chlen AMN SSSR prof. V.M.Zhdanov) AMN SSSR i  
Kontrol'nyy institut meditsinskikh biologicheskikh preparatov  
imeni L.A.Tarassvicha (direktor I.F.Mikhaylov), Moskva. Sub-  
mitted February 6, 1964.

L-8185-66 EWA(1)/EWA(b)23/EWT(1) OR  
ACC NR: AP5027483 SOURCE CODE: UR/0219/65/060/010/0107/0112

AUTHOR: Blyumkin, V. N.; Gaydamovich, S. Ya.; Obukhova, V. R.; Sekretta, L. Yu. 44/55

ORG: Virusology Institute im. D. I. Ivanovskiy AMN SSSR, Moscow 44/55  
(Institut virusologii AMN SSSR) 4d B

TITLE: Cytological changes in RES cells infected by tick-borne encephalitis virus 4

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 10, 1965, 107-112

TOPIC TAGS: medical experiment, encephalitis, cell physiology, pathogenesis, nucleic acid, histology

ABSTRACT: RES (Ran Embryonis Suis) cells obtained from pig embryo kidneys were infected with different concentrations ( $10^{-1}$  to  $10^{-2}$ ) of tick-borne encephalitis virus (strain Ix-10) to study the cytopathological changes of cells during the early stages of infection. The RES cell cultures were grown on glass slides in flasks containing 2 ml of No. 199 medium and 10% ox blood serum and were incubated for periods of 20 to 48 hrs. The infected cultures were fixed according to A. L. Shabadash's method for 2 to 24 hrs and stained by various histological

Card 1/2

UDC: 576.858.25.095.383

0902.02

L 8185-66

ACC NR: AP5027483

methods including Brash's pyronine method for identifying RNA and Felgen's method for identifying DNA. Typical cytopathological changes (karyopyknosis, karyorrhexis, plasmorrhesis, and cytolysis) destroying both the cytoplasm and nuclei of cells developed in the infected RES cell cultures in 30 to 48 hrs. These changes appeared earlier (20 to 26 hrs) in RES cell cultures infected with higher concentrations ( $10^{-1}$  to  $10^{-2}$ ) of virus. In control experiments, the RES cell cultures inoculated with a mixture of the virus and a specific immune serum did not develop any cytopathological changes. The RES cells are characterized by cytological, cytochemical, and karyological stability and high sensitivity to tick-borne encephalitis virus and are strongly recommended for use in laboratory studies. Orig. art. has: 3 figures.

SUB CODE: LS/ SUBM DATE: 11 May 64/ ORIG REF: 011/ OTH REF: 011

jw  
Card 2/2

I. 08549-67	EWT(1)	JK
ACC NR: AP6032117	(A,N)	SOURCE CODE: UR/0346/66/000/010/0019/0021
AUTHOR: Ryutova, V. P.; Demidova, S. A.; Blyumkin, V. N.; Fadeyeva, L. L.		
ORG: [Ryutova] Scientific Research Institute of Fur Farming and Rabbit Farming (Nauchno-issledovatel'skiy institut pushnogo zverovodstva i krolikovodstva); <sup>17</sup> <sup>B</sup> Virology Institute im. D. I. Ivanovskiy, AMN SSSR (Institut virusologii AMN SSSR)		
TITLE: Cytopathic action of a <u>plague</u> <u>virus</u> of carnivores in tissue culture		
SOURCE: Veterinariya, no. 10, 1966, 19-21		
TOPIC TAGS: virus, plague, virus disease, <sup>crytology</sup>		
ABSTRACT: The cytopathic effect of a plague virus of carnivores (dogs, foxes, and minks) on transplanted cultures of human amnion (strains FL and A <sub>1</sub> ), Ner-2 cells, and Res (fetal pig kidney) cells was studied using vaccinal and wild strains (the latter isolated from foxes). No cyto- pathic effect was observed in Ner-2 and Res cells after three consecu- tive passages. Human amnion cells were most sensitive to the plague virus: degenerative changes occurred 9—11 days after the second pas- sage and immune serum from dogs was neutralized. Experiments showed		
Card 1/2	UDC:	619:616.988.27-093.35

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ACC NR: AP6032117

that chick-embryo fibroblasts can be used to isolate wild plague virus strains from spontaneously infected animals. The virus has a cytopathic effect on chick-embryo cells from the first passage. No hemagglutination or hemadsorption activity was noted when a plague virus of carnivores was tested with erythrocytes from sheep, guinea pigs, dogs, chickens, geese, humans, rabbits, foxes, polar foxes, and minks. Orig. art. has 2 figures. [W.A. 50]

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BLYUMKIN, V.P.

CHAYKA, Ye.N., BEYUMKIN, V.P., PETROVA, R.M.

First White Russian Conference of Morphologists. E.N. Chaika,  
V.P. Blyumkin, R.M. Petrova. Arkh.anat.gist. i embr. 35 no.2:106-112  
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(NERVOUS SYSTEM)

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AUTHOR: Blymkina, I.A.

TITLE: Flow around a wedge-shaped profile by a sonic gas flow

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya matematiki, mehaniki i astronomii, no.1, 1961, 102-112

TEXT: The considered problem is reduced in the mathematical formulation to the singular Tricomi's problem for the Chaplygin equation

$$\Psi_{\eta\eta} + \eta \Psi_{\eta\theta} + b(\eta) \Psi_\eta = 0.$$

The solution is divided into a singular part and a regular one. The united form of the singular part of the solution is given in both a subsonic region and a supersonic one. The second part of the problem is reduced to a solving of the Volterra integral equation of the first kind. Its solution is constructed in the form of expansion in the eigenfunctions of the chief part of the kernel.

In the appendix the asymptotic formulas for Chaplygin's functions and their derivatives are given in the supersonic region.

The profile BCKG' is flown around by a sonic flow under the angle of incidence  $\alpha_0 = 0$  (figure 1).

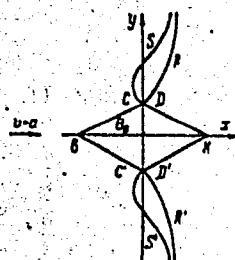
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Flow around a wedge-shaped profile...

Fig.1



The sound line  $S(S')$  intersects the limit characteristic  $R(R')$  in infinity. Let  $\theta$  be the inclination angle of the velocity to the x-axis and

$$\eta = \left\{ \frac{3}{4} \int_{\tau_s}^{\tau} \sqrt{\frac{\tau_s - \tau}{\tau_s(1-\tau)}} \frac{d\tau}{\tau} \right\}^{2/3},$$

where  $\tau = \tau_s \frac{\pi^2}{a_x^2}$ ,  $\tau_s = \frac{x-1}{x+1}$ ,  $w$  -- amount of the velocity,  $a$  -- critical velocity,  $\gamma$  -- adiabatic exponent. In the  $\eta, \theta$ -plane the region at the

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